



Haiku

Human AI teaming Knowledge and
Understanding for aviation safety

Overview of the project

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This project has received funding by the European Union's Horizon Europe research and innovation programme HORIZON-CL5-2021-D6-01-13 under Grant Agreement no 101075332

Our goal

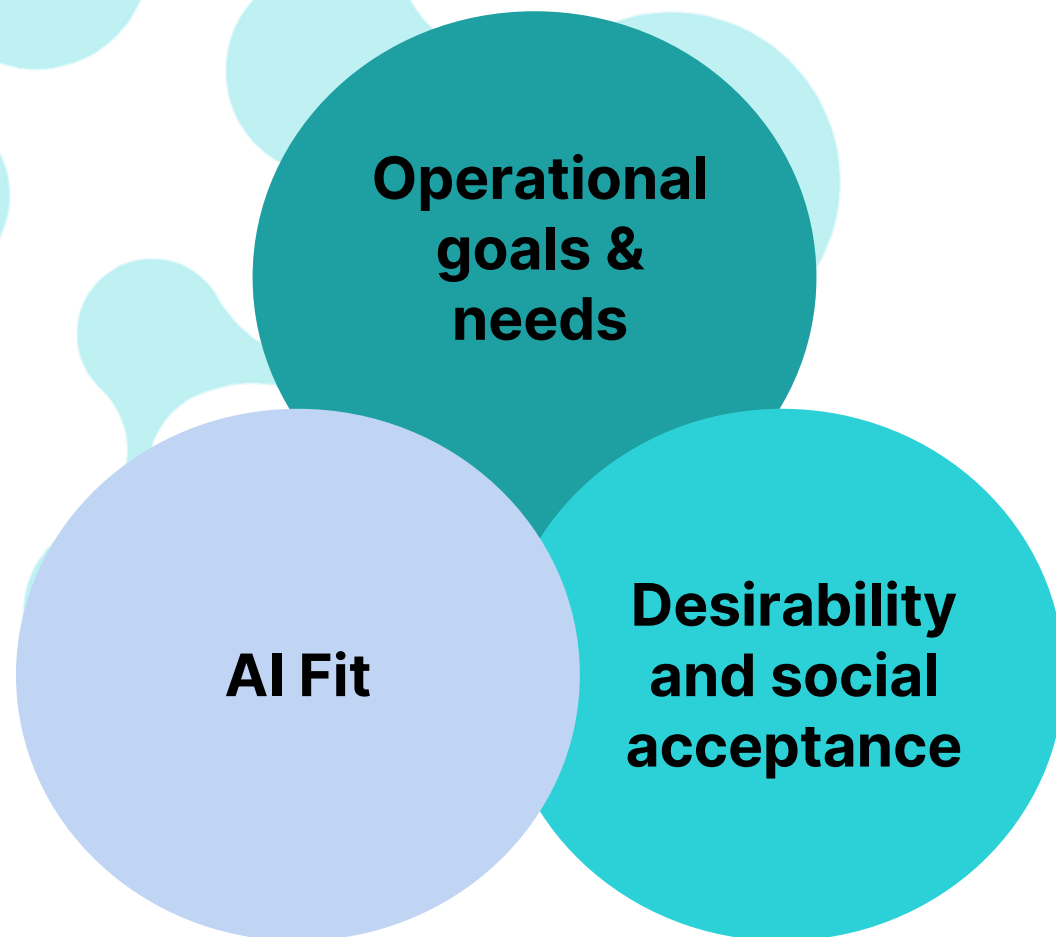


Developing **Human-Centred AI-Based Intelligent Assistants** for **safe, secure, trustworthy** and **effective** **Human-AI partnerships** in **aviation** systems.

A futuristic digital environment with a wireframe human figure on the left and a glowing blue network structure on the right. The background is dark with vertical lines and a grid pattern.

Key challenge: **human-centric Intelligent Assistants**, integrating **human values, needs, abilities** and **limitations**.

Our approach



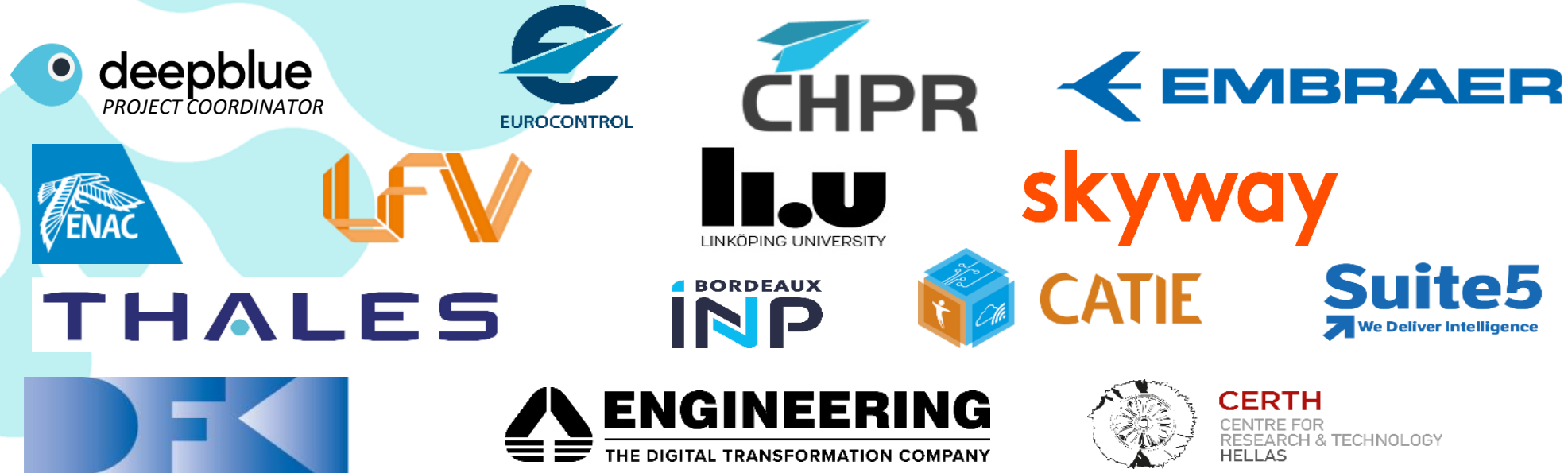
- **Human-centred approach**
starting from users' needs and pain points
- **Analysis of how technology changes human activity**
doing the same job with a digital assistant is not “doing the same job”



Our mix of expertise

15 Partners from 10 different countries

Three communities: **Human Factors, end-users, technology** suppliers



END-USERS



London Luton Airport

ADVISOR



The HAIKU Swiss knife: 6 use cases

Cockpit
"startle response"
Led by ENAC



Airport
„passangers' safety"
Led by CERTH



Cockpit
„route planning/replanning"
Led by THALES



Airport
„safety management"
Led by EUROCONTROL & ENGINEERING
London Luton Airport



Urban Air Mobility
"traffic management"
Led by Linköping University & LfV



Tower controllers
„approach"
Led by SkyWAY



Our outputs: 3 strands of work

INTELLIGENT ASSISTANTS

Developed and validated for:

- Airline operations
- ATM
- Urban Air Mobility
- Airport Operations

HUMAN FACTORS APPROACHES for AI

- Explainability framework
- Human Factors Assurance process

SOCIETY

- Analysis of Liability and Ethics
- **Design and assessment of new human roles**
- Safety Culture Safeguards for Aviation Organizations





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Thanks for your attention



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Ask your questions here!



In your opinion, how familiar is the aviation community with AI?



In which phase would AI play the most important role in the future?

